

# ABSTRACT

Methods and apparatus for implementing peer-to-peer relay. In one implementation, a method of building a redundancy list in a peer system in a peer-to-peer relay network includes: receiving a first message including first identification information at a first peer system from a second peer system connected to said first peer system in a peer-to-peer relay network; storing said first identification information; receiving a second message including second identification information at said first peer system from a third peer system connected to said first peer system in said peer-to-peer relay network; comparing said second identification information with said first identification information; building a redundancy update message; and sending said redundancy update message to said third peer system.